



Smart Trip®

Monitoring and Fault Detection in
Transmission Networks

Quickly isolate faults in transmission networks.

A High Voltage Sensor System providing monitoring and fault detection and diagnosis technology to provide a trip signal to a switching or protection device. The sensors are field configurable, allowing the user to stock one design and use in multiple applications. A “one size fits” all design that has no ground level footprint eliminates the need for structural analysis or installation of structural supports.

FEATURES

- Light weight current sensor
- Sensor is field configurable
- No physical contact from sensor to ground
- Mounts to existing poles, structures, and switches
- No ground level foot print
- Interfaces with conventional electronic relays

SPECIFICATIONS

- Current measurement
- Current waveform capture
- Line & neutral overcurrent fault detection

APPLICATIONS

- Transformer Protection
- Capacitor Bank Protection
- Reactor Switching and Protection
- Bus and Line Monitoring

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RATINGS AND SPECIFICATIONS

Applicable Voltages	38kV to 245kV*
Fault Sensing Capabilities	up to 40 kA
Maximum Continuous Current	2000 Amps
Protocols & Communications	DNP3, Modbus Serial and Ethernet
Sampling Rate	64 samples per cycle
Turn on Time	Less than 1 cycle
Current Sensor	Southern States ICS®

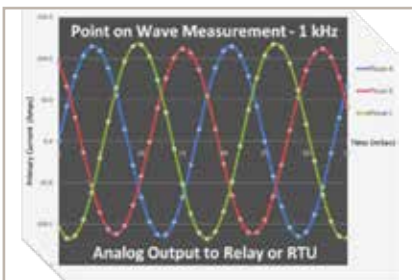
* Contact factory for voltages above 245kV

KEY ADVANTAGES

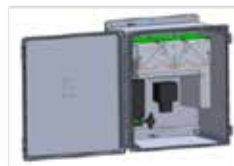
- Design allows mounting on most all products or structures
- Suitable for operation inside and outside of substation
- Sensors are field configurable
- No ground level footing
- Works with all manufacturer's relays
- Can be supplied with application specific protection algorithms
- DNP3 and Modbus communication

INTELLIGENT CIRCUIT SENSOR - ICS®

The ICS® is an Intelligent Circuit Sensor, designed as an enabling technology for High voltage sensor system solutions. The ICS is designed to operate in the same harsh environments as our transmission substations and power lines and provides information currently not available on transmission networks on an economic and performance scale unrealized until now.



Real time waveform capture



Digital processing receiver



Patented electronic current sensor
Requires no batteries